

## **Mcclellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Thursday, August 26, 2021 8:45 PM  
**Subject:** 2021 Willapa Bay In-Season Update August 16 - 22 - management week 34  
**Attachments:** 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft week 34.pdf; Naselle Hatchery Adult CHK Summary 08.26.2021.pdf; 2021 WB Hatchery Chinook Eggtake 08.26.2021.pdf; 2021 WB Impacts by area total catch summary Draft 08.26.2021.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Everyone,

This week's email will provide you an in-season update on the Willapa Bay marine area 2.1 recreational fishery from August 16 – 22, 2021 (management week 34), information on hatchery Chinook broodstock at our Willapa Bay facilities, spawning ground surveys, and the Willapa Bay commercial fishery.

### **Recreational Marine Fishery**

Starting August 1, the Willapa Bay program monitors the recreational marine fishery in Tokeland and South Bend two days per strata (strata 1: Monday – Thursday, strata 2: Friday – Sunday). We are also conducting boat surveys and test fishing. The boat survey allows us to evaluate the proportion of effort that exits the fishery at sampled (Tokeland and South Bend) vs. non-sampled locations. We use this information to expand our actual sampled data collected dockside to the rest of the recreational fishery to account for any boats that may have left the fishery from other locations. The test fishing allows us to collect unmarked Chinook genetics, which are illegal to retain as of August 1, and represents the same time, area, and fishing methods of the recreational salmon fishery in Willapa Bay.

Since our last update, we have continued to see an increase in effort and catch of hatchery Chinook salmon. There was slightly more effort over the weekend compared to the days prior. Effort has increased by 58% compared to the previous week and has resulted in more hatchery Chinook salmon caught as well as a few more hatchery coho. Our dockside staff reported our highest number of landed fish on Tuesday, August 17 for this week's update. There were a few good tides early last week first thing in the morning, however, there were also minus tides at low water, which typically contributes to less fish biting.

*(See attachment: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft weeks 34.pdf)*

The boat survey work shows 96.7% of the boats fishing this year in the Willapa Bay marine area 2.1 are exiting the fishery either in Tokeland or South Bend. These are the locations where we have staff dockside monitoring four days a week. Only 3.3% of boats are exiting the fishery at a location not monitored by our dockside staff.

For this week, we have seen afternoon high tides (after 12 p.m.) with a larger tidal exchange (minus low tides to a 6-8-foot-high tide) as well as minus tides at low water. This tide series will continue this way through the Saturday, August 28, when we will transition to morning high tides that will be more favorable. There will be two fishable high tides by Sunday, August 29; one in the morning and one early evening. This just provides for more opportunity to fish when fish are moving throughout Willapa Bay.

## **Hatchery Chinook Rack Returns**

### **Naselle Hatchery:**

To-date, 145 adult and 11 jack Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. Of these 145 Chinook salmon, four adult males and one jack were unmarked, and hatchery staff have passed them upstream above the weir. Currently, there have been four Chinook salmon mortalities (1 male, 3 females) reported in the Naselle Hatchery. These data will be updated in the next weekly in-season email.

(See attachments: *Naselle Hatchery Adult CHK Summary 08.26.2021.pdf* and *2021 WB Hatchery Chinook Eggtake 08.26.2021.pdf*)

### **Nemah and Forks Creek hatcheries:**

To-date, no fall Chinook salmon have recruited into the hatchery.

## **Spawning Ground Surveys**

Staff have continued walking stream surveys below the weir in Nemah and Naselle rivers since August 2, 2021. No spawning activity or redds has been observed in either location. Staff have observed approximately 460 live Chinook in the Naselle River and approximately 108 live Chinook in the Nemah River staging below the weirs. Staff began to survey the Lower South Fork Willapa River, Trap Creek, and the mainstem Willapa River last week. Staff have witnessed three live Chinook in the South Fork Willapa River but no redds were observed. It is still early for Chinook spawning in Willapa Bay. Traditionally, Chinook begin spawning in Willapa Bay rivers in the middle of September. The purpose of these early surveys this year are to check for fish staging in the river and document any Spring Chinook spawning from the one-time plant in 2018.

## **Commercial Fishery**

The commercial fishery began last week on Friday, August 20 in area 2N. Nine boats participated in this one day fishery using tangle net gear. There were 663 hatchery Chinook salmon and one coho landed from the fishery. The fleet also accrued 24 local natural origin Chinook impacts during this opener. Hatchery and natural Chinook encounters were higher than predicted preseason for statistical week 34. (See attachment: *2021 WB Impacts by area total catch summary Draft 08.26.2021.pdf*)

This week, the commercial fishery will occur tomorrow, August 27, in areas 2N and 2M using tangle net gear. An update from this opener will be provided in next week's update email.

As mentioned above, if you have any comments or questions specific to the information provided in these emails, please submit your comments to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov).

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information we send out regarding Willapa Bay fisheries, please forward this email and have them reply to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov) stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((°>  
Barbara McClellan  
Willapa Bay Fisheries Management  
WDFW Region 6 Montesano

*\*\*We want to remind everyone that this distribution list is intended to be a pathway to disseminate information to those who have signed up to hear updates from Region 6 staff, and not a place to air your personal opinions. Folks who abuse the Willapa Bay mailer in the future will be removed from the list without warning.*

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel

Monitoring: <https://wdfw.wa.gov/fishing/reports/creel/willapa-bay>

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): <https://wdfw.wa.gov/fishing/commercial/gillnet#information>



# **In-season Estimates of Effort and Salmon Catch**

updated 8/26/2021

## **2021 Willapa Bay Marine Area Recreational Mark Selective Chinook and Coho Fishery**

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

						Catch Estimates			
Month	Week	Dates	Regulation	Estimated		Retained Chinook		Retained Coho	
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked
June (Ocean Area 2 rules)	25	Jun 19 & 20	No Coho retention allowed	8	26	0	0	0	0
	26	June 21 - 27		9	22	0	0	0	1
	27	June 28 - Jul 4		13	32	0	0	0	0
July (Ocean Area 2 rules)	28	July 5 - 11	No wild Coho retention allowed	26	55	0	0	0	0
	29	July 12 - 18		26	63	0	2	0	3
	30	July 19 - 25		61	135	9	8	0	0
	31	July 26 - Aug 1		20	44	0	3	0	4
Total to Date				163	377	9	13	0	8

Estimated Willapa origin Chinook Impacts	
Unmarked	Marked
0	0
0	0
0	0
0	0
0	0
0	1
3	3
0	1
3	4

For June and July, dockside sampling was conducted only at the Tokeland boat launch and marina

				Estimated Catch							Estimated Encounters			Estimated Catch			
				Retained Chinook							Released Chinook			Retained Coho			
Month	Week	Dates	Regulation	Estimated		Marked	Marked CPUE	Marked WB origin impacts	Unmarked	UM CPUE	UM WB origin impacts	Unmarked Encounters	UM CPUE	UM WB origin impacts	Marked	Marked CPUE	Unmarked
				Boats	Anglers												
August	31	8/1/2021 only	No wild coho or wild Chinook retention allowed	57	129	17	0.128	10	0	0.000	0	8	0.064	1	0	0.000	0
	32	Aug 2 - 8		301	633	59	0.094	37	0	0.000	0	20	0.032	2	6	0.009	0
	33	Aug 9 - 15		371	794	86	0.108	53	0	0.000	0	27	0.034	2	0	0.000	0
	34	Aug 16 - 22		591	1,317	145	0.110	90	0	0.000	0	69	0.052	6	3	0.002	2
	35	Aug 23 - 29															
September	36	Aug 30 - Sept 5															
	37	Sept 6 - 12															
	38	Sept 13 - 19															
	39	Sept 20 - 26															
	40	Sept 27 - 30															
Total to Date				1,320	2,873	307		190	0		0	124		11	9		2

These data represent the estimated expanded values (not raw data).

No jacks included in estimates.

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip

## 2021 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft  
Updated 8/26/2021

Willapa Bay Natural-Origin Fall Chinook							Willapa Bay Hatchery-Origin Fall Chinook				
Mgmt Wk	Date	Harvest Rate Proportions	Preseason Prediction		In-season Estimate		Harvest Rate Proportions	Preseason Prediction		In-season Estimate	
			NOR	Cumulative Total	WB Origin	Cumulative Total		HOR	Cumulative Total	WB Origin	Cumulative Total
25	6/19 - 6/20	0.0338	0	0	0	0	0.0048	0	0	0	0
26	6/21 - 6/27	0.0338	0	0	0	0	0.0048	0	0	0	0
27	6/28 - 7/4	0.0338	3	3	0	0	0.0048	4	4	0	0
28	7/5 - 7/11	0.0204	2	4	0	0	0.0072	6	10	0	0
29	7/12 - 7/18	0.0970	7	11	0	0	0.0089	8	18	1	1
30	7/19 - 7/25	0.0532	4	15	3	3	0.0312	27	44	3	3
31	7/26 - 8/1	0.1146	8	24	1	4	0.0278	24	68	11	14
32	8/2 - 8/8	0.0807	6	30	2	5	0.1114	95	163	37	51
33	8/9 - 8/15	0.0853	6	36	2	8	0.1449	124	287	53	104
34	8/16 - 8/22	0.1363	10	46	6	14	0.2190	187	474	90	194
35	8/23 - 8/29	0.1552	11	57		14	0.2398	205	678		194
36	8/30 - 9/5	0.0755	6	63		14	0.1169	100	778		194
37	9/6 - 9/12	0.0791	6	69		14	0.0634	54	832		194
38	9/13 - 9/19	0.0178	1	70		14	0.0211	18	850		194
39	9/20 - 9/26	0.0384	3	73		14	0.0013	1	851		194
40	9/27 - 9/30	0.0128	1	74		14	0.0010	1	852		194
			74		14	0.183			853	194	0.228



# Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT \*

8/26/2021

Year	2018						2019						2020						2021*					
Origin	Hatchery			Natural			Hatchery			Natural			Hatchery			Natural			Hatchery			Natural		
Stat Week	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing
31	1	1	0%	-	-	-	1	1	0%	1	1	1%	-	-	-	-	-	-	1	0	-	0	0	-
32	5	6	0%	-	-	-	9	10	0%	0	1	1%	-	-	-	-	-	-	1	1	-	0	0	-
33	11	17	1%	2	2	0%	23	33	1%	3	4	2%	17	17	0%	0	0	0%	28	29	0%	3	3	0%
34	12	29	1%	3	5	1%	48	81	3%	5	9	5%	59	76	1%	3	3	0%	63	92	1%	0	3	0%
35	44	73	2%	7	12	2%	145	226	9%	7	16	8%	52	128	2%	6	9	1%	49	141	2%	1	4	1%
36	16	89	3%	5	17	3%	347	573	23%	24	40	20%	107	235	4%	5	14	2%			0%			0%
37	784	873	30%	87	104	21%	373	946	38%	9	49	25%	649	884	13%	34	48	7%			0%			0%
38	128	1,001	34%	7	111	23%	150	1,096	44%	0	49	25%	372	1256	19%	3	51	8%			0%			0%
39	123	1,124	38%	15	126	26%	86	1,182	47%	12	61	31%	1,600	2856	43%	6	57	9%			0%			0%
40	196	1,320	45%	65	191	39%	32	1,214	49%	11	72	37%	892	3748	56%	6	63	10%			0%			0%
41	560	1,880	64%	114	305	62%	521	1,735	69%	41	113	58%	874	4622	69%	178	241	37%			0%			0%
42	654	2,534	87%	85	390	80%	406	2,141	86%	17	130	66%	1122	5744	86%	228	469	72%			0%			0%
43	219	2,753	94%	36	426	87%	315	2,456	98%	59	189	96%	407	6151	92%	118	587	91%			0%			0%
44	166	2,919	100%	58	484	99%	26	2,482	99%	5	194	99%	492	6643	99%	59	646	100%			0%			0%
45	7	2,926	100%	5	489	100%	15	2,497	100%	1	195	99%	26	6669	100%	1	647	100%			0%			0%
46	0	2,926	100%	0	489		1	2,498	100%	0	195	99%	10	6679	100%	0	647	100%			0%			0%
47	0	2,926	100%	0	489		0	2,498	100%	1	196	100%	1	6680	100%	0	647				0%			
48	0	2,926	100%	0	489		0	2,498	100%	0	196		0	6680		0	647							
49	0	2,926	100%	0	489		2	2,500	100%	0	196		0	6680		0	647							
50	0	2,926	100%	0	489		0			0	196		0	6680		0	647							
51	1	2,927	100%	0	489		0			0	196		0	6680		0	647							
Total	2,927			489			2,500			196			6,680			647			141			4		

## 2021 Willapa Bay CHINOOK Broodstock Summary

FishBooks

updated 8/26/2021

preliminary/draft

### Naselle Hatchery

as of 08/26/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	137	0	3	1	0

### Nemah Hatchery

as of 08/26/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	0	1,210	0	0	0	0	0

### Forks Creek Hatchery

as of 08/26/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
400,000	40,000	440,000	3,000	147	0	147	0	0	0	0	0

Preliminary Draft

### 2021 WB Total CHINOOK NOR Fishery Impacts Summary

Stat Weeks	2T		2U		2N		2R		2M		In-season Estimated Natural-Origin Impacts		Preseason Predicted Natural-Origin Impacts	
	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Weekly	Cumulative	Weekly	Cumulative
33	Closed													
34	Closed		Closed		32	24	Closed		Closed		24	24	15	15
35	Closed		Closed		0	0	Closed		0	0	0	24	24	39
36	Closed		Closed		0	0	Closed		0	0	0	24	24	63
37	Closed		Closed		0	0	Closed		0	0	0	24	23	86
38	0	0	0	0	0	0	Closed		0	0	0	24	50	136
39	0	0	0	0	0	0	0	0	0	0	0	24	47	183
40	0	0	0	0	0	0	0	0	0	0	0	24	38	221
41	0	0	0	0	0	0	0	0	0	0	0	24	7	228
42	0	0	0	0	0	0	0	0	0	0	0	24	18	246
43	0	0	0	0	0	0	0	0	0	0	0	24	4	250
44	Closed													
45	0	0	0	0	0	0	Closed		Closed		0	24	0	250
46	0	0	0	0	0	0	Closed		0	0	0	24	0	250
47	Closed		0	0	0	0	Closed		0	0	0	24	0	250
48	Closed													
Totals	0	0	0	0	32	24	0	0	0	0	24	24	250	250
MSF														